

DII.3042.HP1020_SOL251.TadA_IP_1.0

**Defense Information Infrastructure (DII)
Common Operating Environment (COE)**

**Installation Procedures (IP) for
Link-11/TADIL-A Version 3.0.4.2**

Document Version 1.0

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1. Scope

1.1 Identification

This Installation Procedure (IP) documents Link-11/TADIL-A, Version 3.0.4.2.

Link-11/TADIL-A Version 3.0.4.2 is hosted on the following platforms:

- C Hardware: Tactical Advanced Computer, version 3/4 (TAC3/4)
Operating System: HP-UX 10.20
DII COE Kernel: 3.0.1.0 (with patches P1 and P2)
- C Hardware: Sparc 10/20
Operating System: Solaris 2.5.1
DII COE Kernel: 3.0.0.3 (with patches P2, P3 and P4)

Two-way Link-11 is supported on HP only, using the GET Engineering Full Wide NTDS card (# 10078501).

1.2 System Overview

The Link-11/TADIL-A core component adds passive and two-way Link-11/TADIL-A capability to Defense Information Infrastructure (DII) Common Operating Environment (COE) Unified Build Core-based systems.

This version of Link-11/TADIL-A satisfies multiple platform requirements using an implementation independent approach. Implementations currently supported include: FFG7 for Coast Guard, ATACC/TAOM for Marine Corps, Submarine for CCS Mk2, and TSC.

The L11Adm segment loads the configuration menus that enable the two-way capability. Loading the L11Adm segment will select the two-way implementation table by default.

Related Documents

- C Software User's Manual (SUM) for TADIL-A Version 3.0.4.2, 22 July 1997, INRI.
- C Software Version Description (SVD) for Link-11/TADIL-A Version 3.0.4.2, 1 August 1997, INRI.

2. Referenced Documents

The following documents are referenced elsewhere in this IP:

2.1 Government Documents

None.

2.2 Non-government Documents

- a. *Software Version Description (SVD) for Link-11/TADIL-A Version 3.0.4.2*,
DII.3042.HP1020_SOL251.TadA_SVD_1.0, 1 August 1997.

3. System Environment

3.1 System Requirements

3.1.1 Hardware Requirements

Link-11/TADIL-A Version 3.0.4.2 is hosted on the following hardware:

- C Tactical Advanced Computer, version 3/4 (TAC-3/TAC-4)
- C Sparc 10/20

The following configuration is recommended:

- C RAM: 128 MB minimum; 192 optimum
- C Disk space: 2 GB
- C Swap Space: 300 MB

3.1.2 Operating System Requirements

Link-11/TADIL-A Version 3.0.4.2 requires the following operating systems:

- C HP-UX 10.20 (TAC-3/TAC-4)
- C Solaris 2.5.1 (Sparc 10/20)

3.1.3 Kernel Requirements

Link-11/TADIL-A Version 3.0.4.2 requires the following DII COE Kernels:

- C TAC-3/TAC-4: requires Kernel 3.0.1.0 and Kernel patches 3.0.1.0P1 and 3.0.1.0P2
- C Sparc 10/20: requires Kernel 3.0.0.3 and Kernel patches 3.0.0.3P2, 3.0.0.3P3, and 3.0.0.3P4

3.2 System and Site Preparations

3.2.1 System Configuration

The following software must be properly installed prior to loading Link11/TADIL-A 3.0.4.2:

- C appropriate operating system (as described above)
- C appropriate DII COE Kernel (as described above)
- C Unified Build 3.0.2.5
- C Unified Build 3.0.2.5P1
- C JMTK for Unified Build 3.0.2.5
- C JMTK for Unified Build 3.0.2.5P1

3.2.2 Operating System Preparation

Information needed to prepare the operating system is described in these documents:

- C *Kernel Installation Guide (HP-UX 10.20), Version 3.0.1.0*, 14 April 1997.
- C *Kernel Installation Guide, (Solaris 2.5.1), Version 3.0.0.3*, 7 April 1997.

3.2.3 Tape/Disk Preparation

The following unclassified tapes contain the Link-11/TADIL-A 3.0.4.2 software.

- C 4mm DAT cartridge, intended for TAC-3/TAC-4 hardware environment
- C 8mm EXABYTE cartridge, intended for Sparc 10/20 hardware environment

4. Installation Instructions

Link-11/TADIL-A 3.0.4.2 is a component of a DII 3.1 C4I system. The following installation procedures describe how to install this software.

4.1 Media Booting Procedures

To prepare a tape for installation:

1. Insert the tape in the DAT drive.
2. Select the System Administration SEGMENT INSTALLER utility.
3. Select the source and click READ CONTENTS. The contents of the tape appear in the SELECT SOFTWARE TO INSTALL portion of the SEGMENT INSTALLER window.

4.2 Installation Procedures

If the system does not contain previously installed software, the operating system (OS) and Kernel, with all patches, must be installed.

1. Install the appropriate OS and Kernel.
 - a. Detailed installation instructions for HP 10.20 are in the *Kernel Installation Guide (HP-UX 10.20), Version 3.0.1.0*, 14 April 1997.
 - b. Detailed installation instructions for Solaris 2.5.1 are in the *Kernel Installation Guide, (Solaris 2.5.1), Version 3.0.0.3*, 7 April 1997.
2. Ensure the appropriate Kernel patches are installed. The Kernel patches are *not* roll-up patches. Each of the patches (for the appropriate OS) must be installed consecutively.
 - a. For HP: 3.0.1.0 Kernel Patch 1 and 3.0.1.0 Kernel Patch 2.
 - b. For Solaris: 3.0.0.3 Kernel Patch 2, 3.0.0.3 Kernel Patch 3, and 3.0.0.3 Kernel Patch 4.
3. Ensure Unified Build (UB) 3.0.2.5 and UB 3.0.2.5P1 are installed:
5. Install Link-11/TADIL-A.
 - a. Highlight Link-11/TADIL-A Interface.
 - b. Click INSTALL.

4.3 Installation of Upgrades

Software previously installed on a system is listed in the CURRENTLY INSTALLED SEGMENTS portion of the INSTALLER window. To install the Link-11/TADIL-A software on a system with previously installed software:

1. Deinstall the following software (if installed). Highlight and click DEINSTALL one at a time.
 - a. JMCIS Printers
 - b. Link-11/TADIL-A Interface
 - c. Link-11/TADIL-A Admin
 - d. C4I Account Group
 - e. JMCIS Account Group
 - f. JMCIS Sys Admin
2. Ensure the appropriate DII COE Kernel patch is installed.
 - a. 3.0.1.0 Kernel Patch 2 for HP systems.
 - b. 3.0.0.3 Kernel Patch 4 for Solaris systems.
3. Ensure the UB patch (3.0.2.5P1) is installed.

4. Install Link-11/TADIL-A.
 - a. Highlight Link-11/TADIL-A Interface.
 - b. Click INSTALL.

4.4 Installation Verification

All successfully installed segments are listed in the CURRENTLY INSTALLED SEGMENTS portion of the INSTALLER window.

4.5 Initializing the Software

Reboot the system after the successful installation of all segments.

4.6 List of Changes and Enhancements

This version contains corrections to Version 2.3.0.0. See *Software Version Description (SVD)* [Section 2.2 (a)] for details.

4.7 Important Considerations

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5. Notes

5.1 Acronyms

| | |
|-------|---|
| C4I | Command, Control, Communications, Computers, and Intelligence |
| COE | Common Operating Environment |
| DAT | Digital Audio Tape |
| DII | Defense Information Infrastructure |
| DFARS | Defense Federal Acquisition Regulation Supplement |
| GB | Gigabyte |
| HP-UX | Hewlett-Packard UNIX-based Operating System |
| INRI | Inter-National Research Institute, Inc. |
| IP | Installation Procedures |
| JOTS | Joint Operational Tactical System |
| LAN | Local Area Network |
| MB | Megabyte |
| RAM | Random Access Memory |
| SAM | System Administrator's Manual |

| | |
|-------------|---|
| STR | Software Test Report |
| SUM | Software User's Manual |
| SVD | Software Version Description |
| TAC-3/TAC-4 | Tactical Advanced Computer, Version 3/4 |
| TADIL | Tactical Data Link; Tactical Digital Information Link |
| TMS | Tactical Management System |
| UB | Unified Build |
| UCP | Universal Communication Processor |
| WAN | Wide Area Network |